

I/A Series® Hardware

Enclosure Overview for the DIN Rail Mounted FBM Subsystem



The DIN rail mounted FBM subsystem enclosures provide a range of equipment mounting options to match system application requirements. Innovative design of the enclosures allows input/output modules to be distributed closer to the process without special environmentally conditioned control or equipment rooms.

CAUTION

To prevent injury, B03 and B04 enclosures must be bolted down. Refer to the manufacturer's installation guide.

There are three types of enclosures:

- B03 – a floor-standing, 32-position enclosure with a NEMA 4 rating
- B04 – a floor-standing, 32-position enclosure with a NEMA 12 rating
- B05 – a wall-mounted, 16-position enclosure with a NEMA 4 or 4X rating.

Depending on the enclosure type, the DIN rail mounted FBM subsystem enclosures offer the following features:

- Environmental protection to permit mounting in mild, harsh, or severe environments
- Accommodation of various quantities of baseplates, which determine the number of Fieldbus Modules (FBMs) and Field Communication Modules (FCMs) per enclosure
- Compact design to minimize use of floor space, allowing maximum number of enclosures in a control room environment
- Generous space for field I/O wiring, termination assemblies
- Power supplies (optionally redundant) to provide and maintain power for the baseplate-mounted equipment.

NOTE

CE compliance requires the use of a metal enclosure and Foxboro's power distribution unit.

B03 ENCLOSURE

The B03 enclosure is a floor-standing unit which accommodates up to four vertically mounted baseplates, for mounting up to 32 FBMs and FCMs in combination. B03 has a NEMA 4 rating and can be located in harsh environmental areas. The B03 enclosure has sealed doors and includes DIN rails, wireways, optional earth bus bars, and optional redundant power supplies. For additional information on the B03 enclosure, refer to Product Specification Sheet PSS 21H-2X3 B4.

B04 ENCLOSURE

Like the B03 enclosure, B04 is a floor-standing unit which accommodates up to four vertically mounted baseplates, for mounting up to 32 FBMs and FCMs. B04 has a NEMA 12 rating and is designed for mild (ordinary) environmental areas. Like the B03, the B04 includes DIN rails, wireways, optional earth bus bars, and optional redundant power supplies. For additional information on the B04 enclosure, refer to Product Specification Sheet PSS 21H-2X4 B4.

B05 ENCLOSURE

The B05 enclosure is a wall-mounted unit which accommodates two horizontally mounted baseplates, for mounting up to 16 FBMs and FCMs. It is available with two levels of environmental protection, allowing it to be used in a variety of locations: indoors, outdoors, sheltered, and harsh:

- NEMA 4 Version – a painted steel enclosure with NEMA ratings of 1, 3R, 4, 12, 13, and IP55 (G3, harsh)
- NEMA 4X Version – a stainless steel enclosure with NEMA ratings of 1, 4, 4X, 12, and IP66 (GX, severe).

The B05 enclosure has a sealed door and includes DIN rails, wireways, optional earth bus bars, and optional redundant power supplies. For additional information on the B05 enclosure, refer to Product Specification Sheet PSS 21H-2X5 B4.

The Foxboro Company

33 Commercial Street
Foxboro, Massachusetts 02035-2099
United States of America
<http://www.foxboro.com>

Inside U.S.: 1-508-543-8750 or 1-888-FOXBORO (1-888-369-2676)
Outside U.S.: Contact your local Foxboro representative.

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